

CORRES CONTROL
OUTGOING LTR NO

DOE ORDER#

94 RF 00760



00002 937

EG&G ROCKY FLATS INC

ROCKY FLATS PLANT P O BOX 464 GOLDEN COLORADO 80402-0464 (303) 966 7000

January 18 1994

94 RF 00760

Richard J Schassburger
Acting Director
Environmental Restoration Division
DOE, RFO

Attn J Pepe

OPERABLE UNIT NOS 1 2 5 6 AND 7 SOIL VAPOR SURVEYS NMH 008 94

On January 10 1994 Mr T Reeves on behalf of the Department of Energy Rocky Flats Office requested a summary of the subcontractors and operating procedures utilized by EG&G in performing soil vapor surveys (SVSs) Attached is a summary of the subcontractors equipment and analytical methods that were employed for the SVS work conducted at Operable Unit (OU) Nos 1 2 5 6 and 7 Other project specific information is also included The surveys conducted at these operable units followed the procedures listed at the bottom of page two

If you have questions or require further information please contact D W Pontius of Environmental Engineering & Technology at X8616


N M Hutchins
Director
Environmental Science & Engineering

DWP cet

Attachment
As Stated

cc
E. A Dillé DOE/RFO
S R Grace DOE/RFO
A. H Pauole DOE/RFO
J Pepe DOE/RFO
T Reeves DOE/RFO
M N Silverman DOE/RFO

ADMIN RECORD

DIST	TR	ENC
AMARAL ME		
BENEDETTI R L		
BENJAMIN A		
BERMAN H S		
BRANCH D B		
CARNIVAL G J		
COPP R D		
DAVIS J G		
FERRERA D W		
HANNI B J		
HARMAN L K		
HEALY T J		
HEDAHL T		
HILBIG J G		
HU-CHINS N M	X	X
KIRBY W A		
KUESTER A W		
MAHAF EY J W		
MANN H P		
MARX G E		
MCDONALD M M		
MCKENNA F G		
MONTROSE J K		
MORGAN R V		
POTTER G L		
PIZZUTO V M		
RISING T L		
SANDLIN N B		
SE-LOCK G H		
ST-WAR D L		
SULLIVAN M T		
SWANSON E R		
WILKINSON R B		
WILLIAMS S (ORC)		
WILSON J M		
WYANT R D		
Hutchins, G M	X	
HOPKINS, J K	X	
WISBY, W S	X	X
Pontius, D W	X	X
ADUK, R Z	X	X
LAUREN, P J	X	X
MAST, E C	X	X
CORRES CONTROL	X	X
ADMN RECORD/000	X	X
PATS/T10G		
TRAFFIC		
O'Rourke, T P	X	X
CLASSIFICATION		
UCNI		
UNCLASSIFIED		
CONFIDENTIAL		
SECRET		

AUTHORIZED CLASSIFIER
DOCUMENT CLASSIFICATION
REVIEW WAIVER PER
CLASSIFICATION OFFICE

IN REPLY TO RFP CC NO

ACTION ITEM STATUS
1 PARTIAL OPEN

1 CLOSED

APPROVALS

APPROVALS

APPROVALS

0101 001074

OPERABLE UNIT 1 2 5 6 AND 7 SOIL VAPOR SURVEYS

OU2 (Phase I) IHSS Nos 110 112 and 113

Work Performed By Walsh & Assoc thru Advanced Sciences Inc (ASI)

Analytes Tested Carbon Tetrachloride (CCl_4) 1 1 Dichloroethane (DCA) 1 2 DCA

1 1 Dichloroethene (DCE) cis & trans 1 2 DCE Tetrachloroethene (PCE)

Trichloroethene (TCE) and Vinyl Chloride

Field Work Conducted June 1993

Equipment Used to Perform Analysis Hewlett Packard (H P) 5890A GC equipped with a Photoionization Detector/Electron Capture Detector (PID/ECD) systems and RESTEK Rtx GC column for analyte separation

Analytical Method Employed EPA Modified 8020

Quality Control Level II

Number Locations Tested 120

Deviations From Procedures None reported

OU2 (Phase IIA) IHSS Nos 109 110 111 1 112 and 113

Work Performed By GEO Environmental Inc thru Metcalf & Eddy

Analytes Tested CCl_4 1 1 DCA PCE and TCE

Field Work Conducted November 1993

Equipment Used to Perform Analysis H P 5890 Series II GC equipped with PID/ECD systems and capillary column for analyte separation

Analytical Method Employed EPA Modified 8010

Quality Control Level II

Number Locations Tested 60

Deviations From Procedures None reported

OU2 (Phase IIB) IHSS Nos 119 1 (OU1) 109 110 111 1 112 113

Work Performed By GEO Environmental Inc thru Metcalf & Eddy

Analytes Tested CCl_4 1 1 DCA 1 1 DCE PCE TCE and Toluene

Field Work Conducted December 1993

Equipment Used to Perform Analysis Same as Phase IIA

Analytical Method Employed EPA Modified 8010/8020

Quality Control Level II

Number Locations Tested 40

Deviations From Procedures None reported

OU5 IHSS No 115 (Original Landfill)

Work Performed By Walsh & Assoc thru ASI

Analytes Tested Benzene CCl_4 Dichloromethane PCE 1 1 1 Trichloroethane TCE

Field Work Conducted February 1993

Equipment Used to Perform Analysis Same as OU2 Phase I

Analytical Method Employed EPA Modified 8020

Quality Control Level II

Number Locations Tested 370

Deviations From Procedures None reported

OU6 IHSS No 165 (Triangle Area)

Work Performed By GEO Environmental Inc thru Woodward Clyde
Analytes Tested Acetone 2 Butanone CCl₄ Chloroform DCA PCE TCE Toluene
Field Work Conducted October 1992
Equipment Used to Perform Analysis Same as OU2 Phase IIA
Analytical Method Employed EPA Modified 8010/8020
Quality Control Level II
Number Locations Tested 56
Deviations From Procedures None reported

OU7 IHSS No 203 (Inactive Hazardous Waste Storage Area)

Work Performed By Walsh & Assoc thru S M Stoller
Analytes Tested Acetone Cis & Trans 1 2 DCE Hydrogen Sulfide Methylene Chloride
1 1 1 TCA TCE Toluene and Xylene
Field Work Conducted December 1992
Equipment Used to Perform Analysis Same as OU2 Phase I
Analytical Method Employed EPA Modified 8020
Quality Control Level II
Number Locations Tested 50
Deviations From Procedures None reported

The following is a list of EG&G Standard Operating Procedures (SOPs) that were followed while the soil vapor survey work was conducted at the above referenced Operable Units. Deviations from the procedures are as noted above.

OPS GT 09 Soil Gas Survey
OPS FO 03 General Equipment Decontamination
OPS FO 04 Heavy Equipment Decontamination
OPS FO 06 Handling of PPE
OPS FO 07 Handling of Decontaminated Water & Wash Water
OPS FO 08 Handling of Drilling Fluids and Cuttings
OPS FO 10 Receiving Labeling and Handling of Environmental Materials Containers
OPS FO 12 Decontamination Facility Operations
OPS FO 15 Photoionization Detectors and Flame Ionization Detectors
OPS FO 16 Field Radiation Measurements